UC Davis Stem Cell Training Program

Grant Award Details

UC Davis Stem Cell Training Program

Grant Type: Research Training II

Grant Number: TG2-01163

Project Objective: Programmatic Objectives met, which include conference attendance, Journal clubs, courses , and trainees successful research in the hosting labs.

Investigator:

Name:	Frederick Meyers
Institution:	University of California, Davis
Type:	PI

Award Value: $4,838,291

Status: Closed

Progress Reports

Reporting Period: Year 4

View Report

Reporting Period: Year 5

View Report

Reporting Period: Year 6

View Report

Reporting Period: NCE Progress Report

View Report

Grant Application Details

Application Title:	Stem Cell Training Program
Public Abstract:	The Stem Cell Training Program includes: experienced, well-funded mentors; essential techniques, methodologies, and facilities relevant to basic, translational, and clinical training in stem cell research; established graduate and training programs that provide the spectrum of training experiences; a clinical enterprise that includes a medical school, teaching hospital, and exceptional infrastructure including a CIRM Shared Research Facility and CIRM Stem Cell Institute; core facilities that provide essential equipment and expertise in stem cell biology and related areas such as animal models, bioengineering, genomics, and imaging; and a clinical program to ensure the translation of bench research to new therapies for human diseases. The program also includes a strong, collaborative framework in which to mentor and cultivate students and young investigators using a team approach. The overarching objective is to provide chosen scholars an integrated experience with state-of-the-art multidisciplinary team training to ensure they become productive, critical thinking, highly trained, and well-rounded collaborative scientists with research careers in stem cell biology and regenerative medicine. This will be accomplished through integration of established campus opportunities and partnering with other related programs and institutions. Faculty from many schools and colleges provide a collaborative structure that has been successful in the current and other funded training programs. Success with the current stem cell training program justifies support for 16 trainees (6 predoctoral, 6 postdoctoral, 4 clinical fellows). Formal training will be provided through mentored research, a didactic curriculum, existing courses in graduate education, established courses that focus on the ethical, legal, and social implications of stem cell research, stem cell biology and regenerative medicine, and a weekly journal club, monthly seminar series with speakers from around the nation, an annual symposium, and an annual training program retreat. The curriculum is designed to bring all scholars and their mentoring teams together throughout the course of the training. The mentors are responsible for selecting and mentoring candidates, evaluating trainee progress, and assisting trainees with career development. The quality of the mentor is a major focus when the selection committee chooses trainees. The leadership of the program spans basic, translational, and clinical research. An Internal Advisory Committee includes the leadership team and representatives from various schools and colleges to oversee the formal process for scholar selection, and expectations for trainees and mentors. Program effectiveness is evaluated through an established educational evaluation program.
Statement of Benefit to California:	The CIRM Stem Cell Training Program will provide significant benefit to the State of California and its citizens in the following ways: • Train diverse scholars to be the next generation of regenerative biomedical science and medicine leaders, advancing basic and clinical translational science as well as mentoring another generation of scholars. • Provide unique shared resources that are used by all stem cell/regenerative medicine scientists and clinicians in California. • Develop team-oriented investigators who will facilitate intra-institutional and inter-institutional research as well as reaching out to industry partners to facilitate and implement new therapies for a host of human diseases. • Educate our community partners about stem cell research including the science as well as the ethical, legal, and social implications of regenerative medicine and stem cell research.